

Table 8-4. Summary of Environmental Impacts from Gas-Fired Generation—Once-Through Cooling Alternative

Impact Category	ANO Site		Alternative Greenfield Site	
	Impact	Comments	Impact	Comments
Land Use	SMALL to MODERATE	25 ha (60 acres) required for power block, 60 ha (150 acres) disturbed for pipeline construction, additional land for backup oil storage tanks	SMALL to MODERATE	Up to 200 ha (500 acres) required for site, pipelines, an estimated 16-km (10-mi) transmission line connection, additional land for backup oil storage tanks
Ecology	MODERATE	Constructed on land within ANO site. Possible significant habitat loss due to pipeline construction.	SMALL to MODERATE	Impact depends on location and ecology of the site
Water Use and Quality				
Surface Water	SMALL	70% reduction in required cooling water flow compared with ANO-1	SMALL to MODERATE	Impact depends on volume and characteristics of receiving body of water
Groundwater	SMALL	ANO-1 does not use groundwater nor is expected to use ground water during license renewal period	SMALL to LARGE	Groundwater impacts would depend on uses, available supply
Air Quality	MODERATE	Primarily nitrogen oxides. Impacts could be noticeable, but not destabilizing	MODERATE	Similar impacts as for ANO site
Waste	SMALL	Waste generation is minor	SMALL	Same impacts as for ANO site
Human Health	SMALL	Impacts considered to be minor	SMALL	Same impacts as for ANO site

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Table 8-4. (contd.)

Impact Category	ANO Site		Alternative Greenfield Site	
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Socioeconomics	SMALL to MODERATE	500 to 750 additional workers during 3-year construction period; followed by reduction from 573 to fewer than 100 persons.	MODERATE to LARGE	Construction impacts would be relocated. Community near ANO would still experience reduction from 573 to a minimal maintenance size.
Aesthetics	SMALL to MODERATE	Visual impact of stacks and equipment would be noticeable, but not as significant as coal option	SMALL to MODERATE	Alternate locations could reduce the aesthetic impact if siting is in an industrial area
Historic and Archaeological Resources	SMALL	Only previously disturbed and adjacent areas would likely be affected	SMALL	Alternate location would necessitate cultural resource surveys
Environmental Justice	SMALL to MODERATE	Impacts on low-income and minority populations should be similar to those on the population as a whole. Impacts on housing are possible.	SMALL to MODERATE	Impacts vary depending on population distribution and makeup